## **ABSTRACT**

A method for examination of a subject comprises the steps of: administering (32) a contrast-enhancing agent into a subject be examined, the contrast-enhancing (7, 42) to introducing density variations in the subject; directing (33) ionizing radiation (3) towards the subject; and detecting (34) ionizing radiation spatially resolved as transmitted through the subject, while Compton scattered radiation (3a, 3c) in the subject is essentially prevented from being detected. ionizing radiation directed towards the subject is provided within a spectral range so that more photons of the ionizing radiation are Compton scattered than absorbed through photoelectric effect in the subject to thereby detect the density variations introduced by the contrast-enhancing agent in the subject spatially resolved.

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